

# Office of Cancer Surveillance

Tennessee Department of Health

Jennifer Murray, Epidemiologist

TCCCP Summit - June 2006



# Office of Cancer Surveillance

- Tennessee Comprehensive Cancer Control Program (TCCCP)
- Tennessee Cancer Registry (TCR)

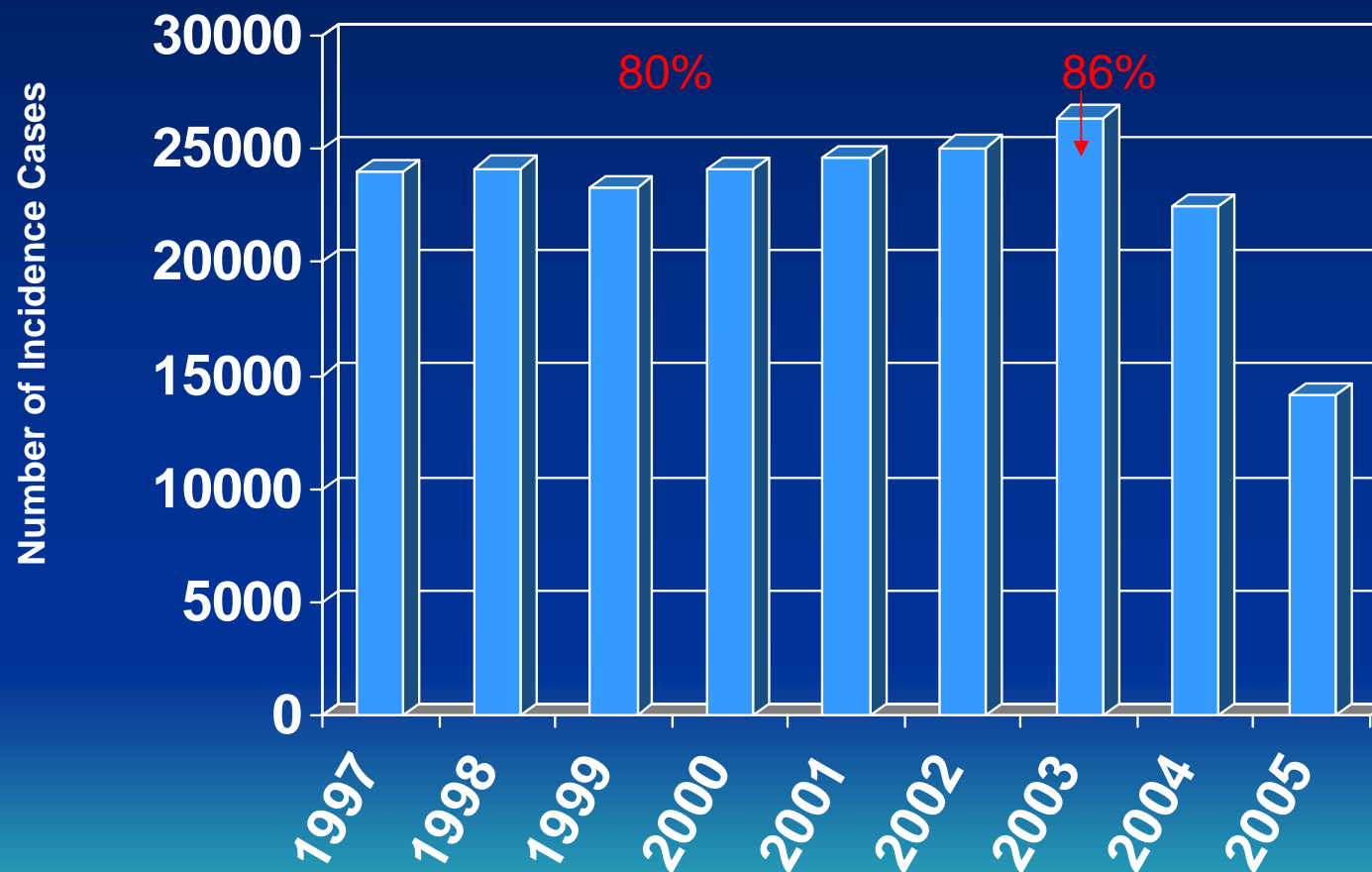


# Tennessee Cancer Registry

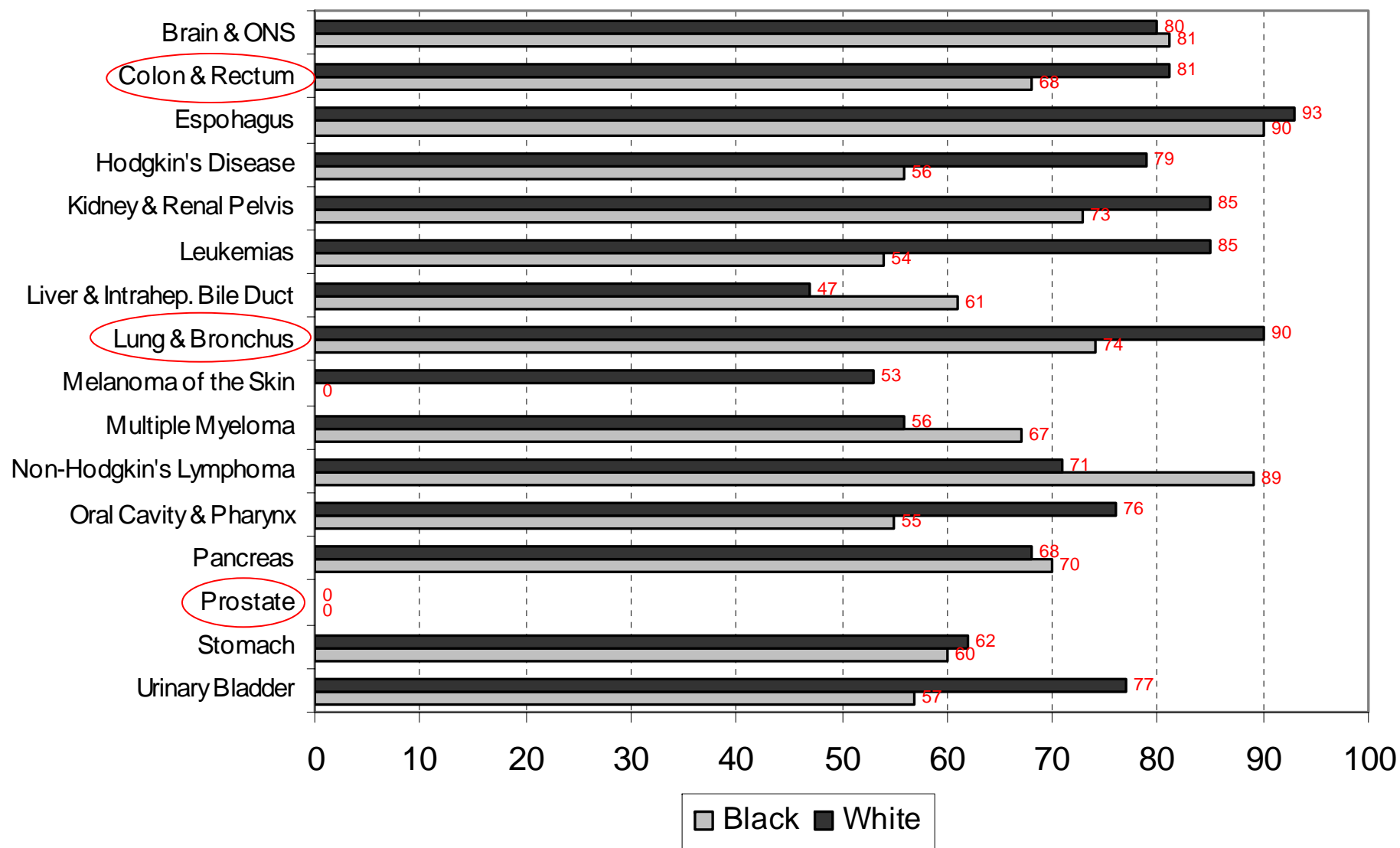
- 1983 – TN Legislation established TCR
- 1986 – Began collecting cases
- 1997 – CDC funding awarded
- 1999 – CDC Reference Year
- 2001 – Submitted year 1999 data
- 2005 – Labs & ASTCs reporting
- 2006 – Urology CDC Pilot Project



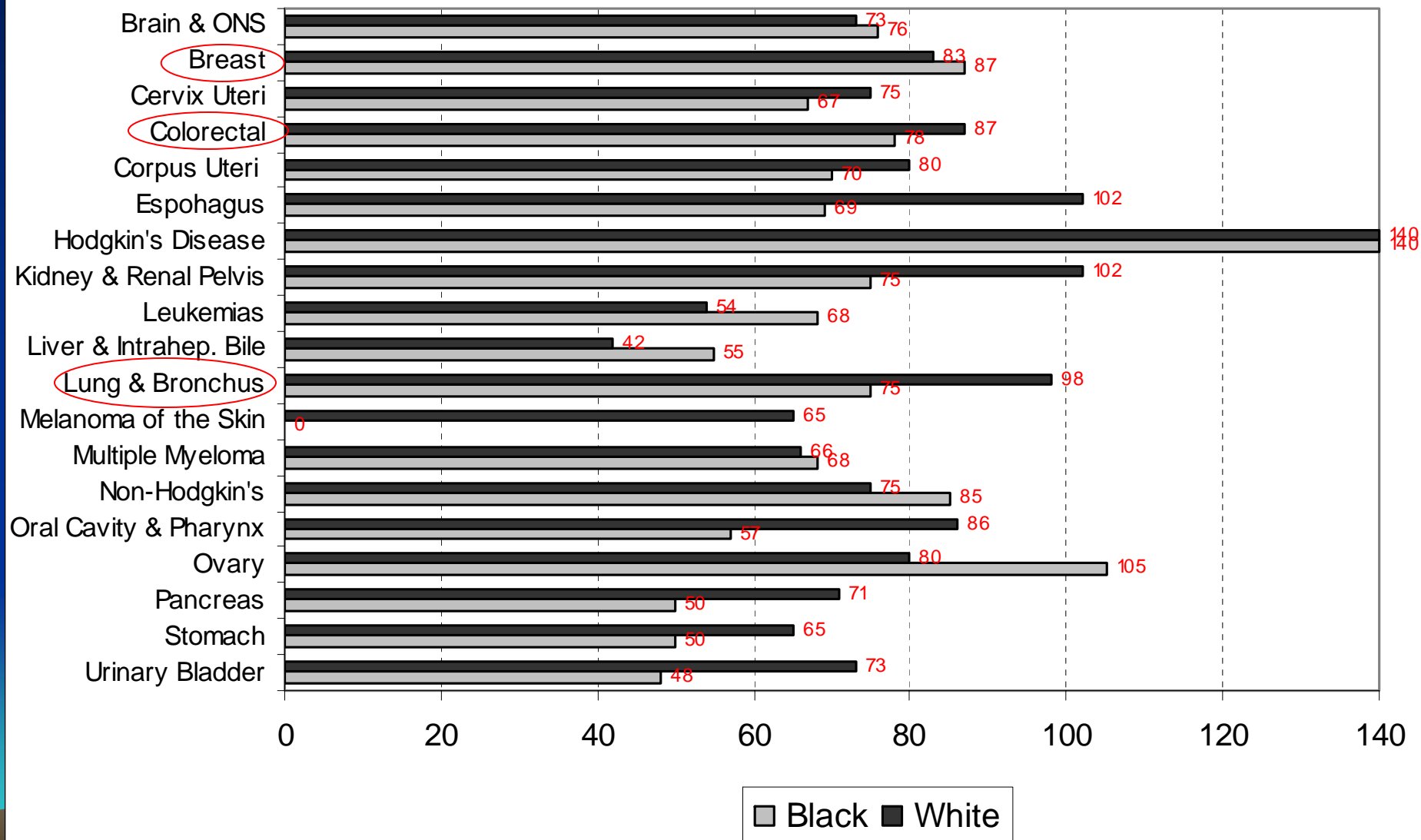
# TN Cancer Cases Collected



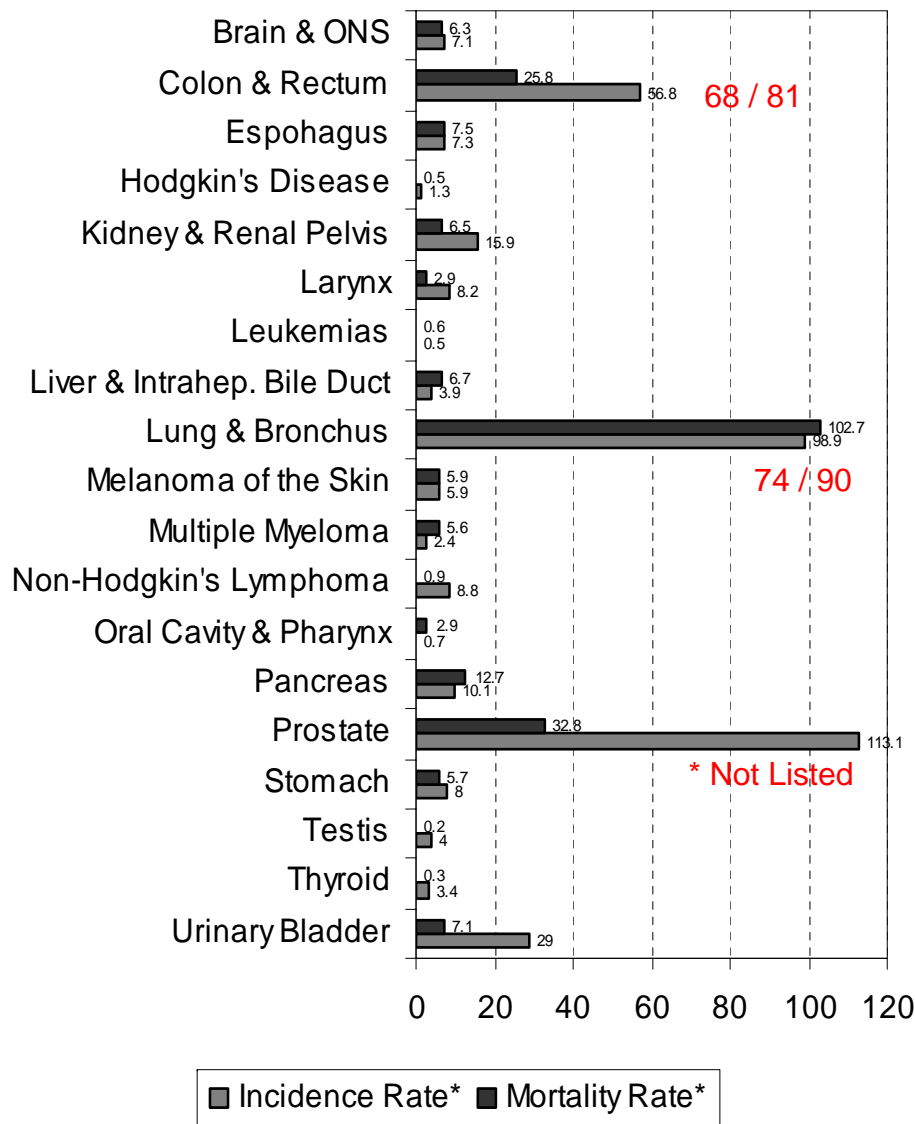
# TN Males – 2002 Case Completeness



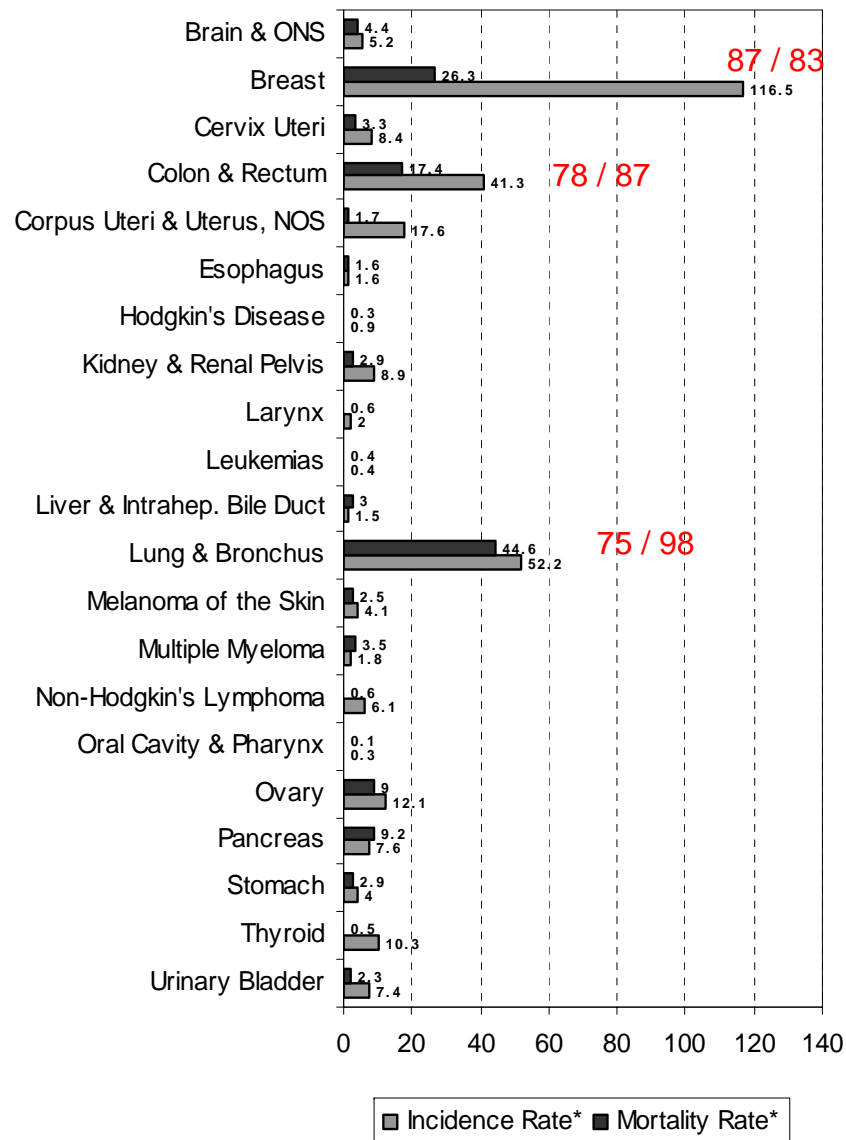
# TN Females – 2002 Case Completeness



## TN Males, 1999 – 2003



## TN Females, 1999 - 2003



\* Five-year average annual rate per 100,000 TN males & females, age-adjusted to the 2000 US standard population.

# Top Cancers in TN

All Cancer

Lung

Colorectal

Breast

Prostate

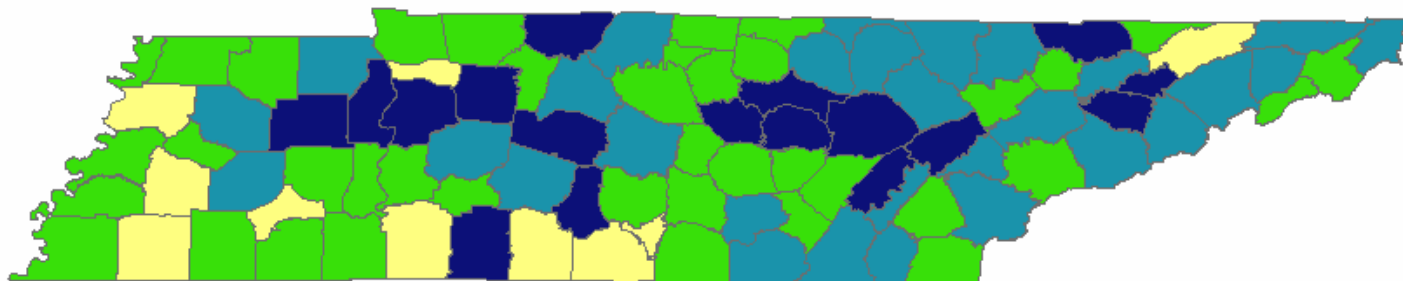




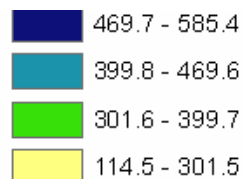
# All Cancers Combined, 1999 – 2003

Age-Adjusted Incidence Rates by County

TN Males & Females



## Rates



**Tennessee Rate: 399.8**

**U.S. Rate: 469.7<sup>^</sup>**

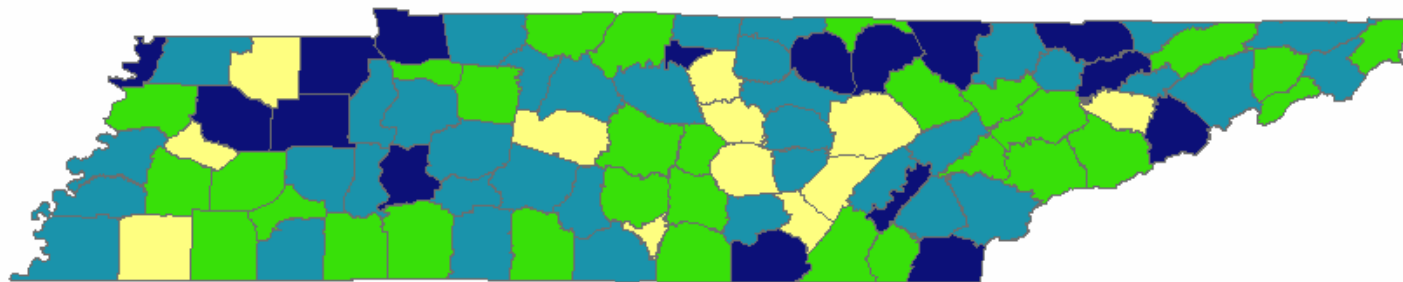
<sup>\*</sup> Five-year average annual rate per 100,000 Tennessee males & females, age-adjusted to the 2000 U.S. standard population.

<sup>^</sup> U.S. rate is 1998-2002 average annual age-adjusted rate and is from SEER (Ries et al., 2005).

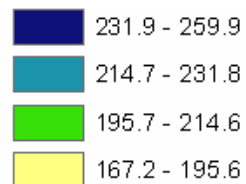
# All Cancers Combined, 1999 – 2003

Age-Adjusted Mortality Rates by County

TN Males & Females



## Rates

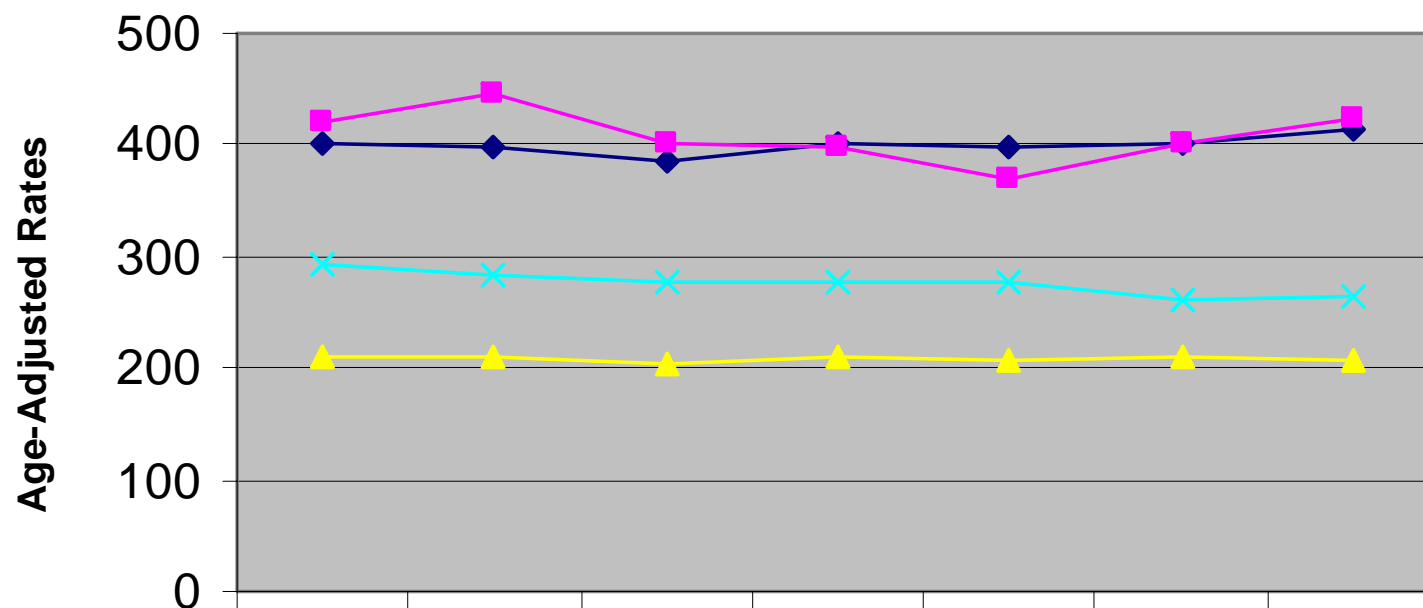


**Tennessee Rate: 214.7**

**U.S. Rate: 195.7**

\* Five-year average annual rate per 100,000 Tennessee males & females, age-adjusted to the 2000 U.S. standard population.

# All Cancers Combined, All Genders Combined by Race

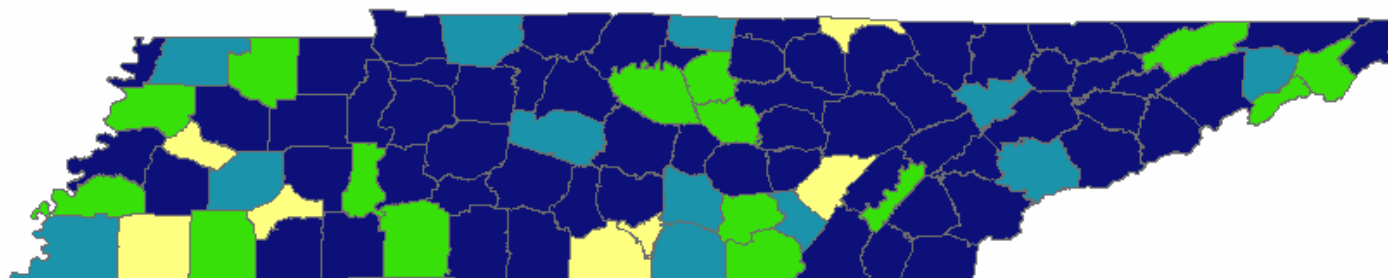


	1997	1998	1999	2000	2001	2002	2003
◆ Incidence White	401.5	399.4	385.6	400.2	398.9	401.6	413.2
■ Incidence Black	418.8	444.6	402	397.8	369.9	401.6	424.6
▲ Mortality White	210.3	209.5	205.1	211.4	206.3	209.9	207.2
× Mortality Black	294.4	282.3	276.5	277.6	276.7	262.6	263.9

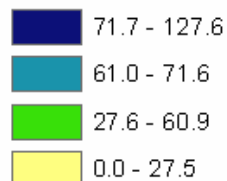
# Lung & Bronchus Cancer, 1999 – 2003

Age-Adjusted Incidence Rates by County

TN Males & Females



## Rates



**Tennessee Rate: 71.7**

**U.S. Rate: 61.0<sup>^</sup>**

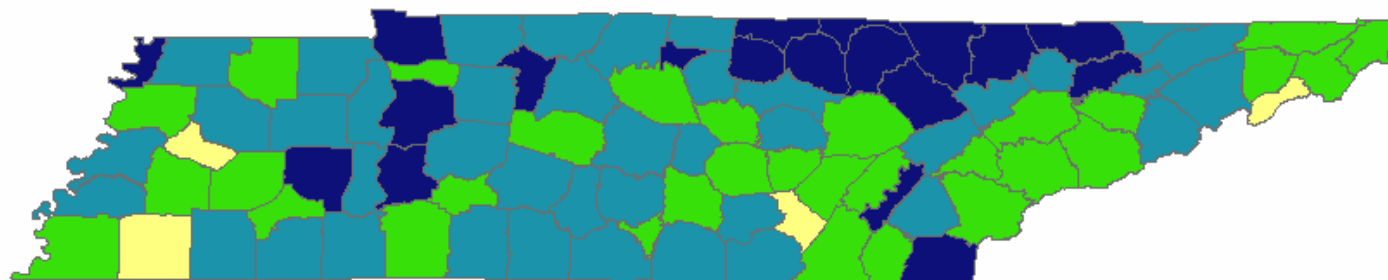
\* Five-year average annual rate per 100,000 Tennessee males & females, age-adjusted to the 2000 U.S. standard population.

<sup>^</sup>U.S. rate is 1998-2002 average annual age-adjusted rate and is from SEER (Ries et al., 2005).

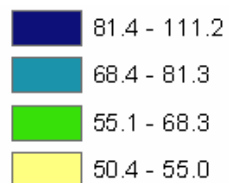
# Lung & Bronchus Cancer, 1999 – 2003

Age-Adjusted Mortality Rates by County

TN Males & Females



## Rates

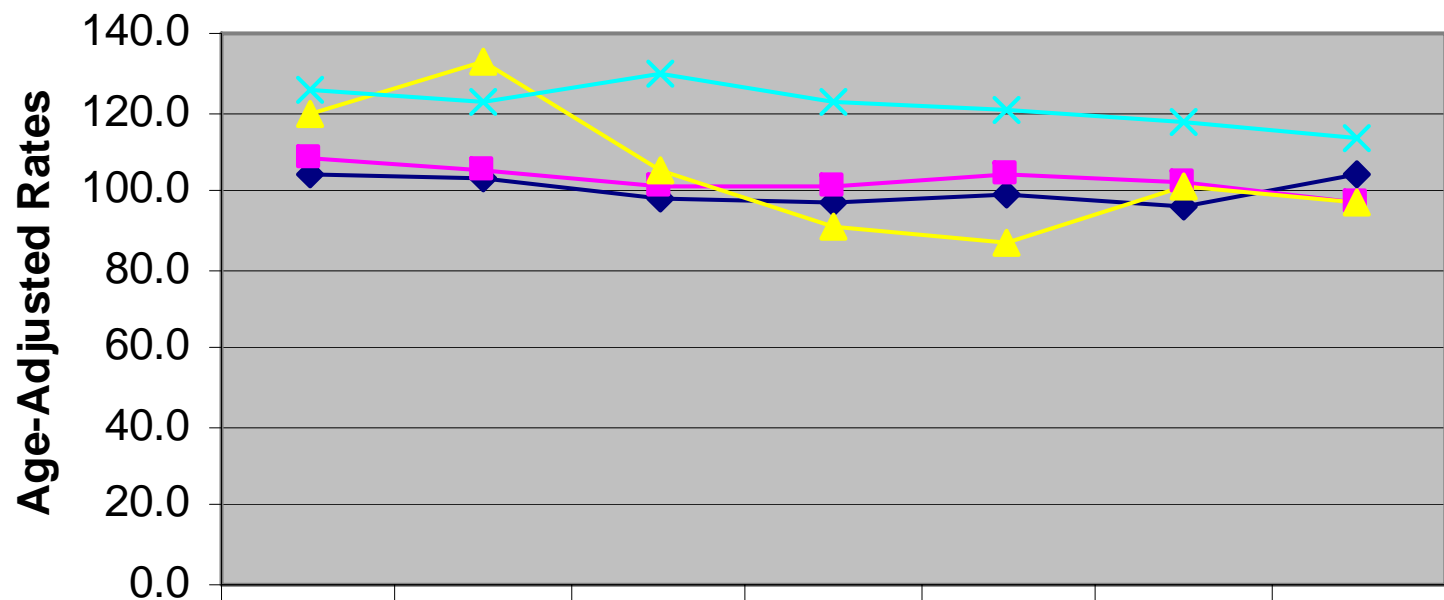


**Tennessee Rate: 68.4**

**U.S. Rate: 55.1**

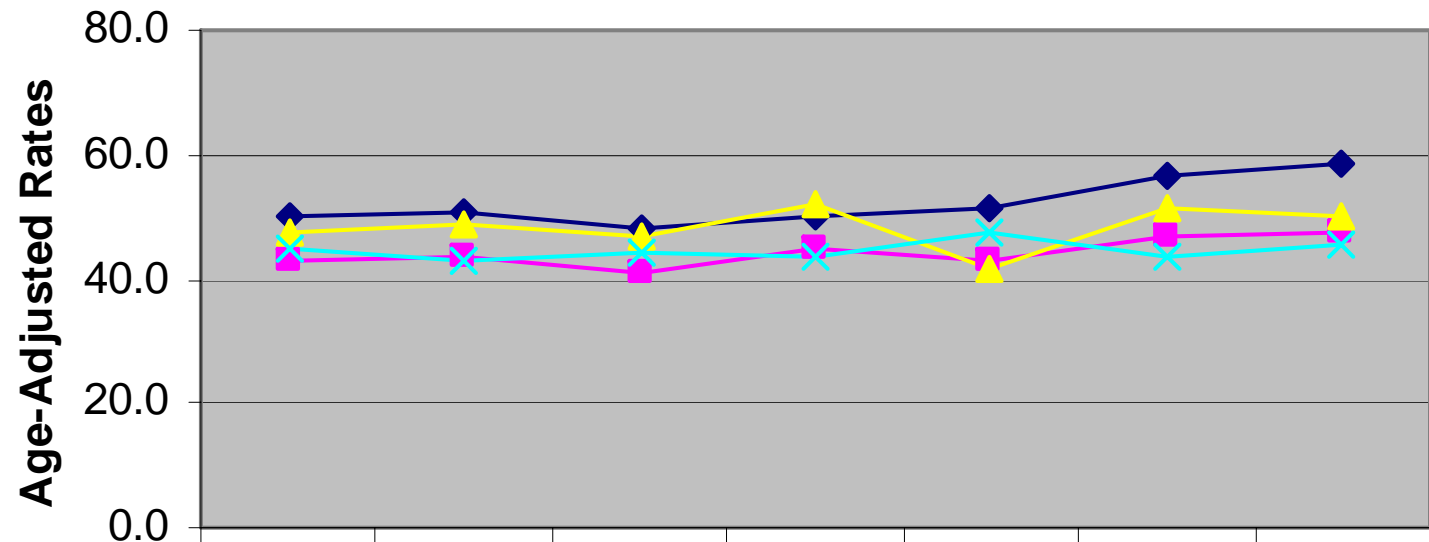
\* Five-year average annual rate per 100,000 Tennessee males & females, age-adjusted to the 2000 U.S. standard population.

# Lung & Bronchus Cancer - Males



◆ Incidence WM	1997	1998	1999	2000	2001	2002	2003
■ Mortality WM	104.6	103.2	98.6	97.4	99.4	96.0	104.5
▲ Incidence BM	108.8	104.8	100.7	101.3	104.3	102.1	97.1
× Mortality BM	119.4	133.2	105.6	91.0	86.5	101.2	97.2
	126.1	123.0	129.4	122.3	120.6	117.4	113.8

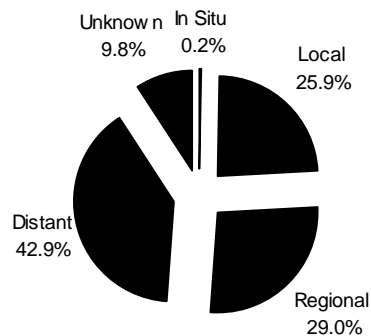
# Lung & Bronchus Cancer - Females



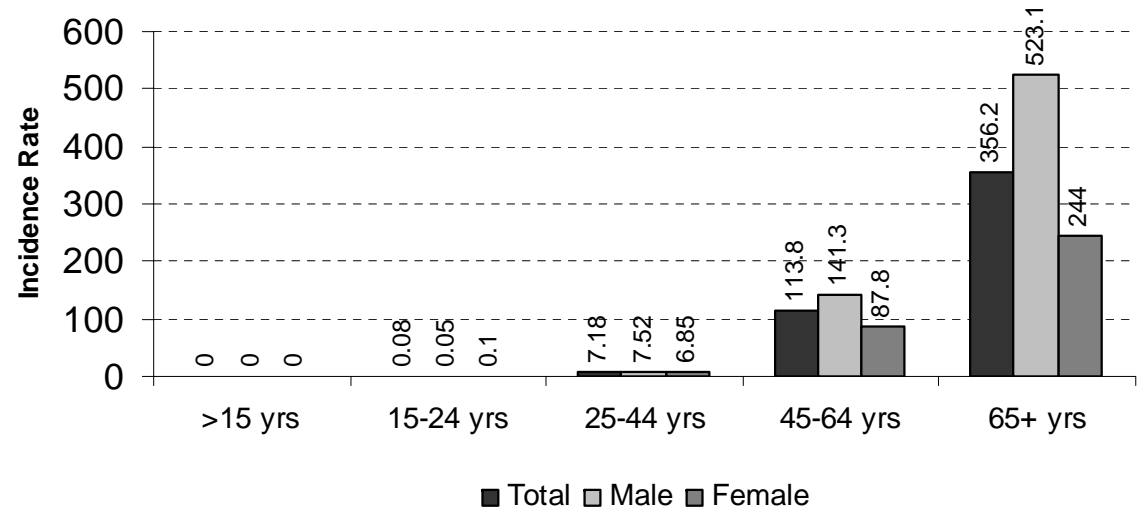
	1997	1998	1999	2000	2001	2002	2003
—◆— Incidence WF	49.9	50.5	48.1	50.3	51.2	56.4	58.5
—■— Mortality WF	43.1	43.4	41.1	45.2	43.0	46.9	47.5
—▲— Incidence BF	47.3	48.9	46.8	52.1	41.9	51.1	50.3
—×— Mortality BF	45.2	42.7	44.1	43.4	47.7	43.6	45.3

# Lung & Bronchus

**Cancer of the Lung & Bronchus  
Stage of Disease at Diagnosis  
Tennessee Males and Females 1999-2003**



**Cancer of the Lung & Bronchus  
Incidence Rates\*, Age-Specific  
Tennessee Residents 1999 - 2003**

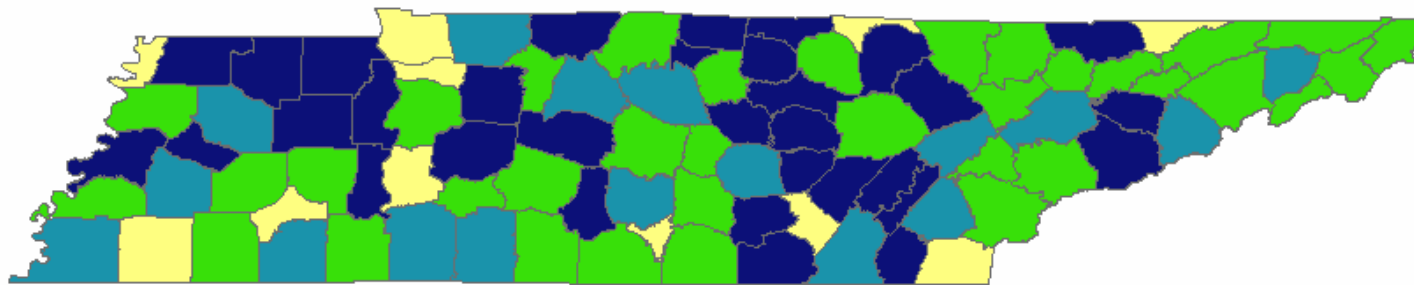




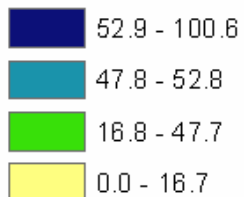
# Colorectal Cancer, 1999 – 2003

Age-Adjusted Incidence Rates by County

TN Males & Females



## Rates



**Tennessee Rate: 47.8**

**U.S. Rate: 52.9<sup>^</sup>**

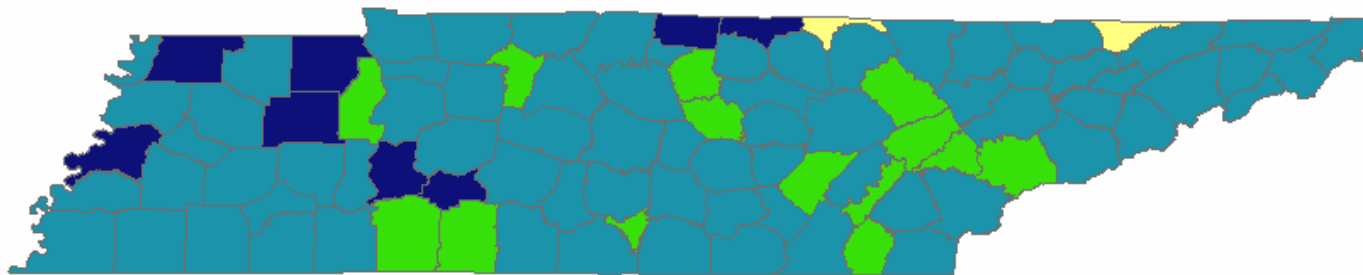
\* Five-year average annual rate per 100,000 Tennessee males & females, age-adjusted to the 2000 U.S. standard population.

<sup>^</sup>U.S. rate is 1998-2002 average annual age-adjusted rate and is from SEER (Ries et al., 2005).

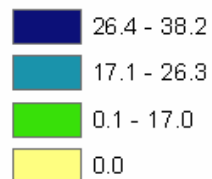
# Colorectal Cancer, 1999 – 2003

Age-Adjusted Mortality Rates by County

TN Males & Females



## CRC.RATES

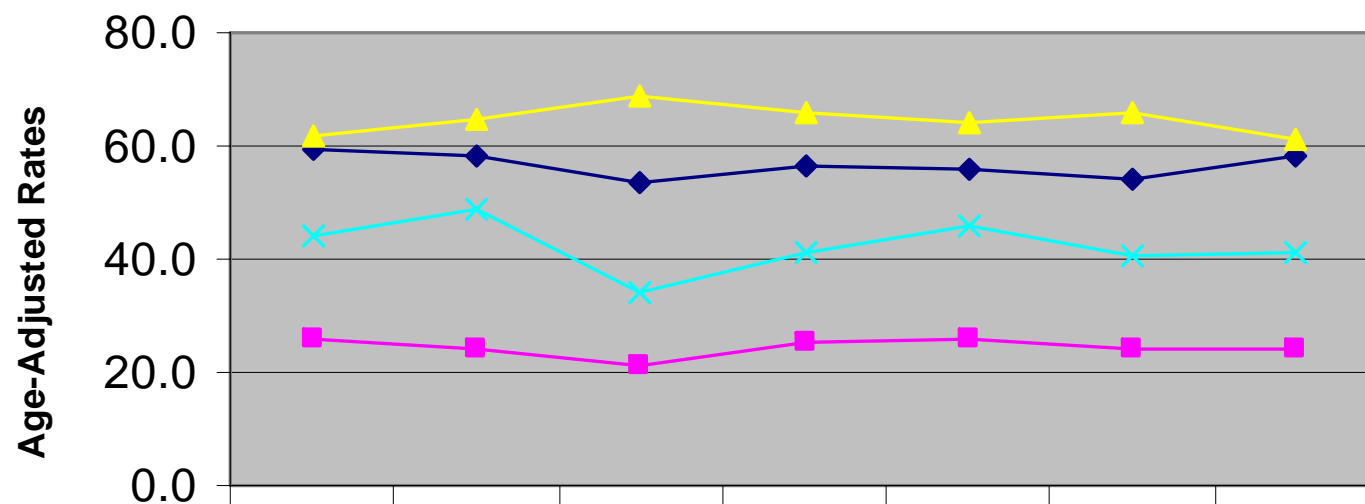


Tennessee Rate: 17.6

U.S. Rate: 17.0

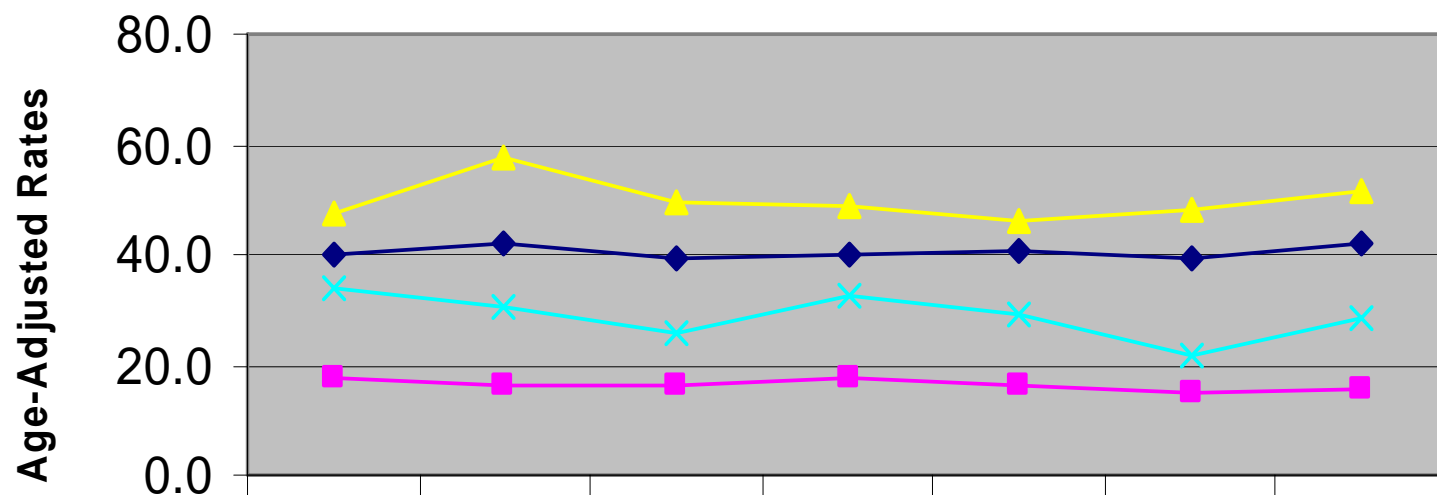
\* Five-year average annual rate per 100,000 Tennessee males & females, age-adjusted to the 2000 U.S. standard population.

# Colorectal Cancer - Males



	1997	1998	1999	2000	2001	2002	2003
◆ Incidence WM	59.2	58.1	53.5	56.6	56.0	54.0	58.3
■ Mortality WM	25.6	24.3	21.4	25.1	25.6	24.0	24.0
▲ Incidence BM	61.5	64.6	68.6	66.1	64.3	66.1	61.4
✕ Mortality BM	44.4	48.9	34.0	41.4	46.1	40.8	41.4

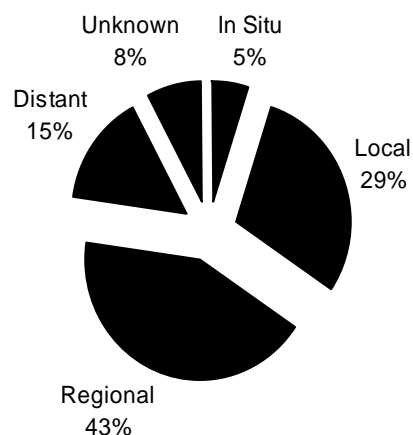
# Colorectal Cancer - Females



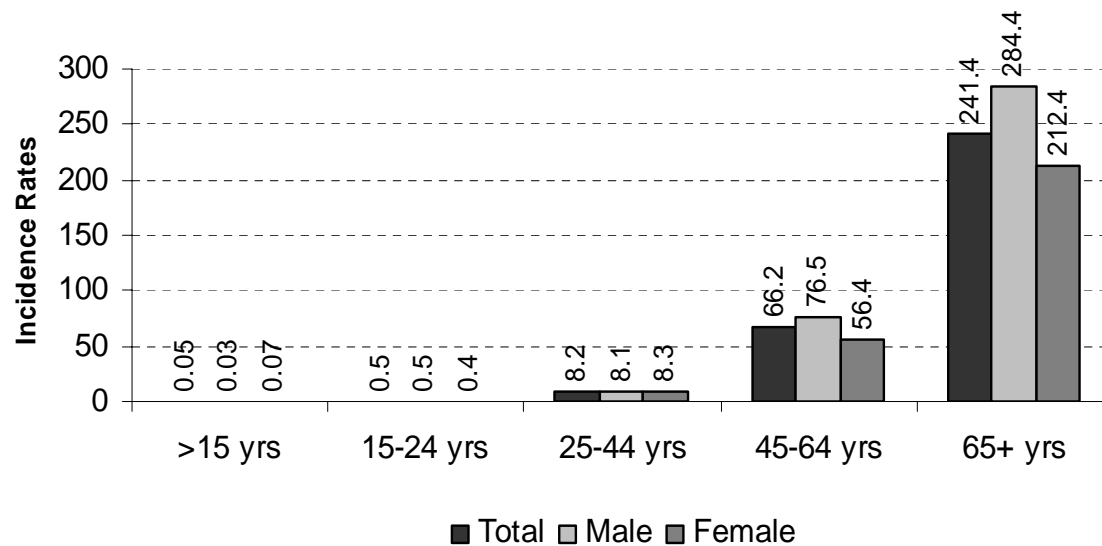
◆ Incidence WF	40.1	42.3	39.6	39.7	40.9	39.3	41.8
■ Mortality WF	17.4	16.4	16.1	17.3	16.5	15.0	15.5
▲ Incidence BF	47.2	57.3	49.5	49.0	46.1	48.2	51.5
× Mortality BF	34.2	30.2	25.8	32.7	29.4	21.8	28.8

# Colorectal Cancer

**Cancer of the Colon & Rectum  
Stages of Disease at Diagnosis  
Tennessee Males and Females 1999-2003**



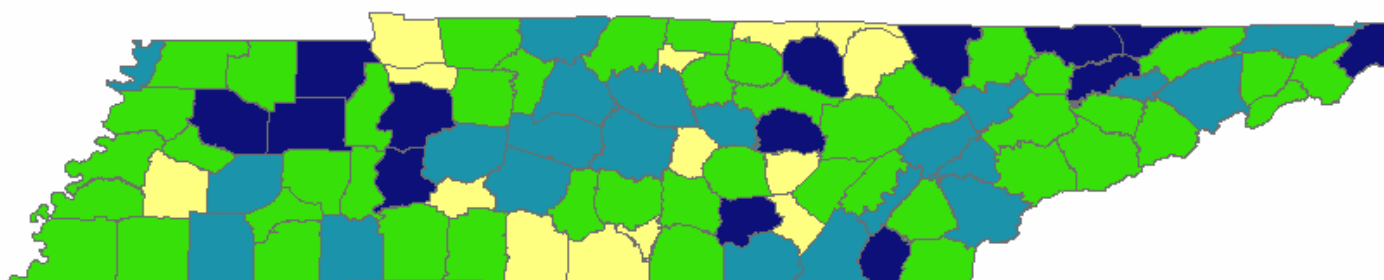
**Cancer of the Colon & Rectum  
Incidence Rates\*, Age-Specific  
Tennessee Residents 1999 - 2003**



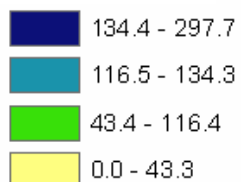
# Female Breast Cancer, 1999 – 2003

Age-Adjusted Incidence Rates by County

TN Females



## Rates



**Tennessee Rate: 116.5**

**U.S. Rate: 134.4<sup>^</sup>**

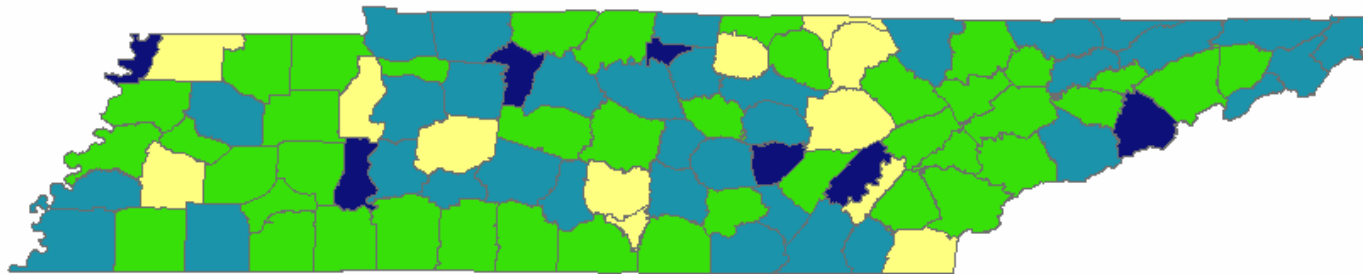
\* Five-year average annual rate per 100,000 Tennessee females, age-adjusted to the 2000 U.S. standard population.

<sup>^</sup>U.S. rate is 1998-2002 average annual age-adjusted rate and is from SEER (Ries et al., 2005).

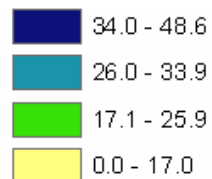
# Female Breast Cancer, 1999 – 2003

Age-Adjusted Mortality Rates by County

TN Females



## Rates



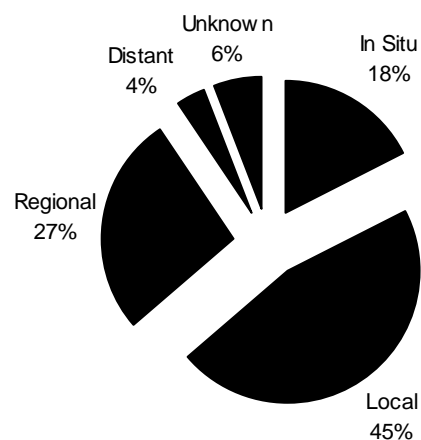
**Tennessee Rate: 26.4**

**U.S. Rate: 26.0**

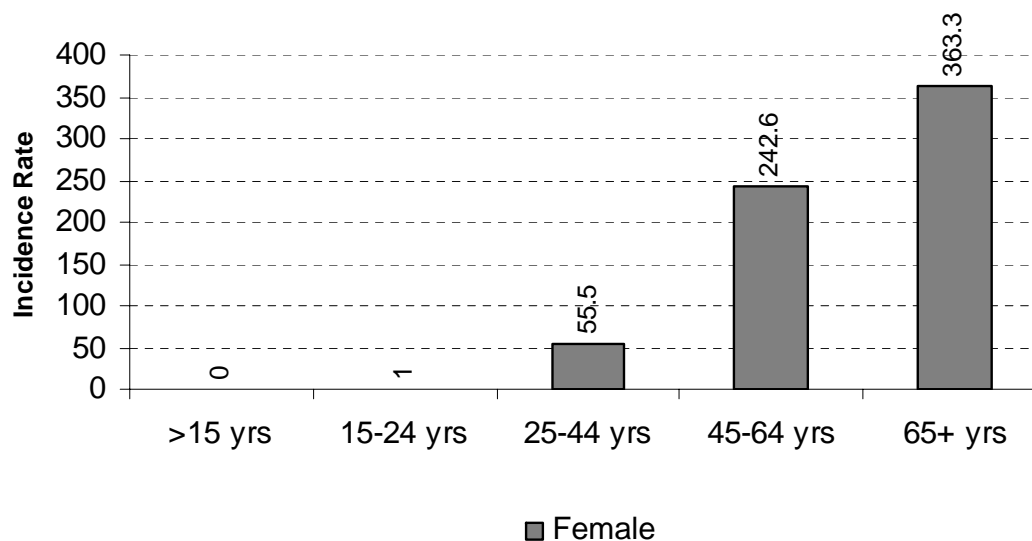
\* Five-year average annual rate per 100,000 Tennessee females, age-adjusted to the 2000 U.S. standard population.

# Female Breast Cancer

**Cancer of the Female Breast  
Stages of Disease at Diagnosis  
Tennessee Females 1999-2003**

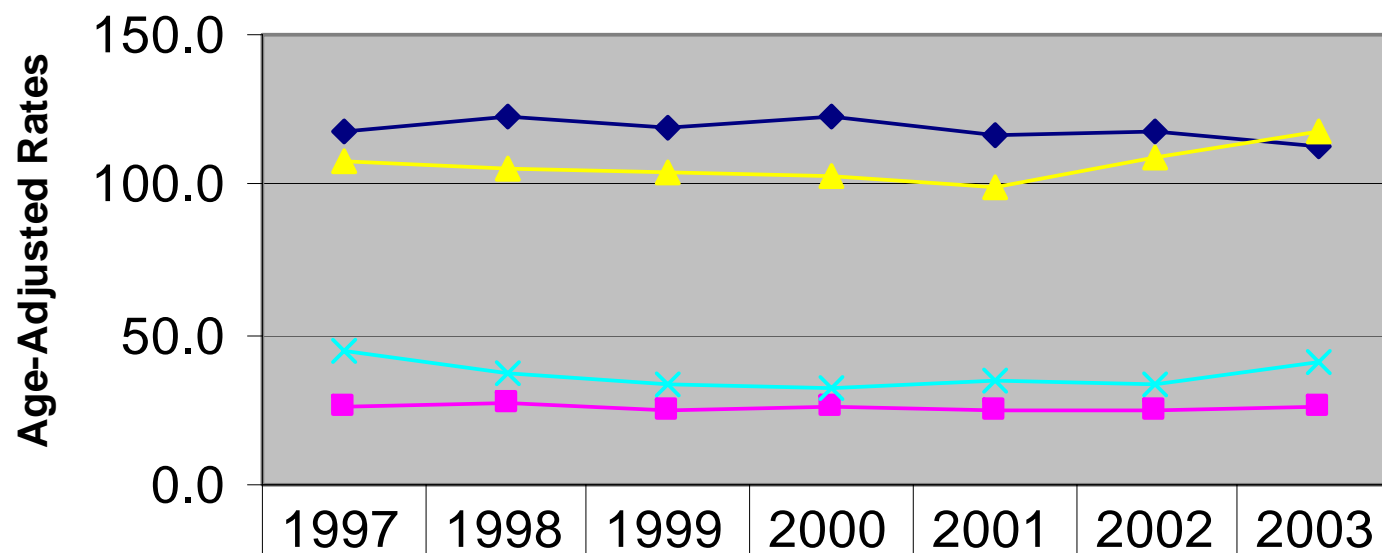


**Cancer of the Female Breast  
Incidence Rates\*, Age-Specific  
Tennessee Females 1999 - 2003**





# Female Breast Cancer

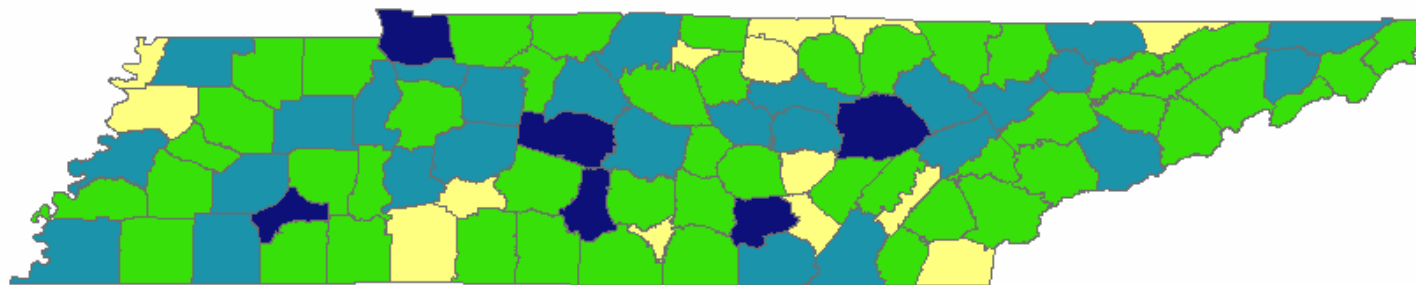


◆ Incidence WF	117.5	122.6	118.5	122.9	116.6	117.8	112.3
■ Mortality WF	25.6	27.3	25.0	25.6	24.7	24.7	25.6
▲ Incidence BF	108.3	105.2	104.1	103.1	99.5	108.8	117.7
✕ Mortality BF	45.2	36.7	33.2	32.0	34.5	33.7	40.4

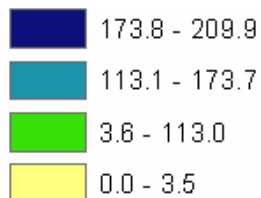
# Prostate Cancer, 1999 – 2003

## Age-Adjusted Incidence Rates by County

### TN Males



#### Rates



**Tennessee Rate: 113.1**  
**U.S. Rate: 173.8<sup>^</sup>**

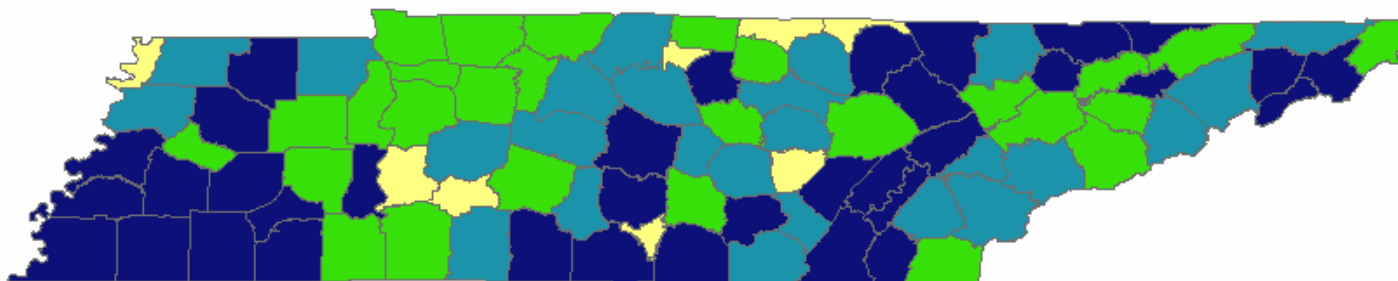
<sup>\*</sup> Five-year average annual rate per 100,000 Tennessee males, age-adjusted to the 2000 U.S. standard population.

<sup>^</sup> U.S. rate is 1998-2002 average annual age-adjusted rate and is from SEER (Ries et al., 2005).

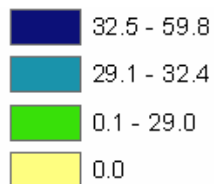
# Prostate Cancer, 1999 – 2003

Age-Adjusted Mortality Rates by County

TN Males



## Rates

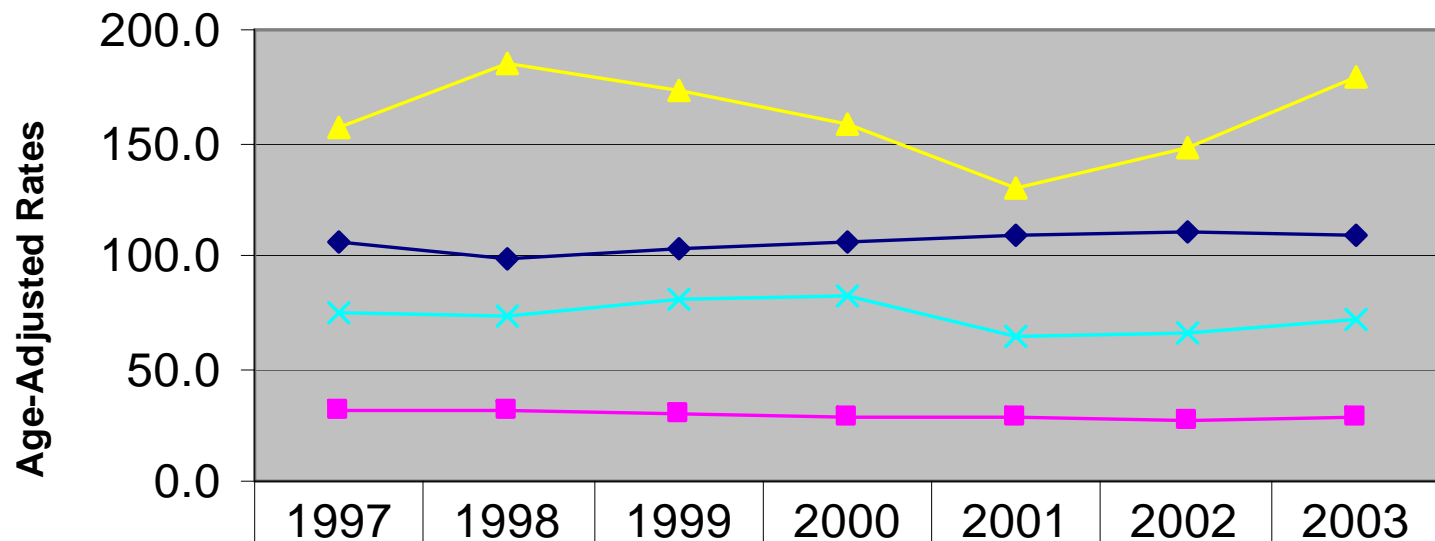


**Tennessee Rate: 26.4**

**U.S. Rate: 26.0**

\* Five-year average annual rate per 100,000 Tennessee males, age-adjusted to the 2000 U.S. standard population.

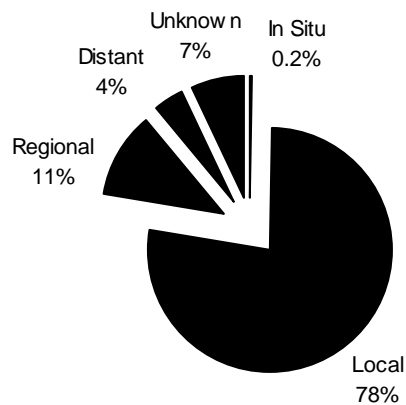
# Prostate Cancer



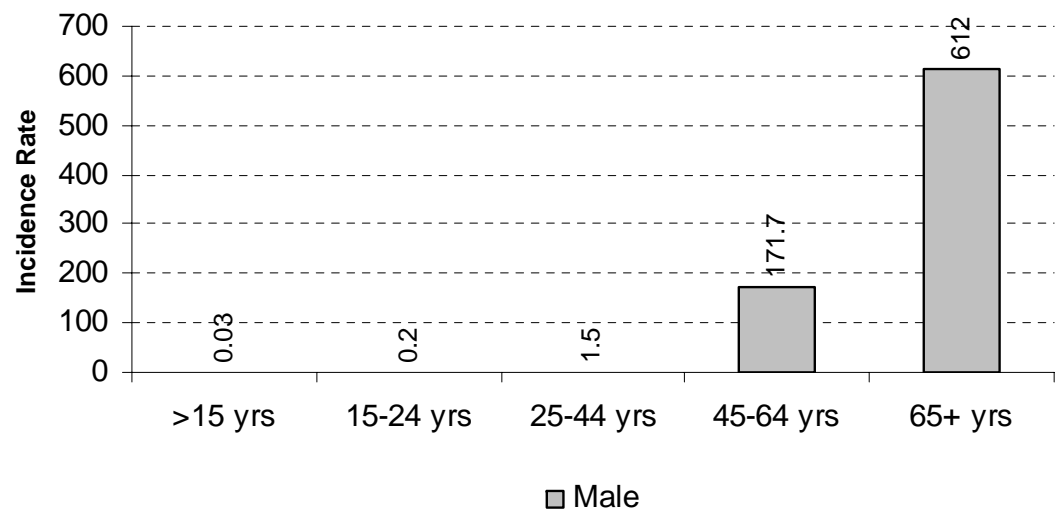
◆ Incidence WM	1997	1998	1999	2000	2001	2002	2003
■ Mortality WM	106.5	98.3	103.0	106.3	109.6	110.5	108.9
▲ Incidence BM	31.4	31.1	29.9	28.9	27.8	26.7	28.9
× Mortality BM	157.1	184.7	172.8	158.6	129.7	148.1	178.9
	74.6	73.5	80.7	82.4	64.7	65.2	71.2

# Prostate Cancer

**Cancer of the Prostate Stage of Disease at Diagnosis  
Tennessee Males 1999-2003**



**Cancer of the Prostate  
Incidence Rates\*, Age-Specific  
Tennessee Males 1999 - 2003**



# Questions?

TCR Website:

<http://www2.state.tn.us/health/TCR/index.htm>

TCCCP Website:

<http://www2.state.tn.us/health/C CCP/index.htm>

